

Luis Javier Lozoya

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PROFESSIONAL SUMMARY

Security-Focused Software Engineer with 5+ years securing cloud-native applications on AWS. GIAC GSEC and GFACT certified through SANS; selected for the SANS Cyber Academy scholarship (Fall 2025), with GCIH (SEC504), AWS AI Practitioner, and PortSwigger Web Security Academy toward BSCP currently in flight. Hands-on with OWASP Top 10, OWASP LLM Top 10, threat modeling, least-privilege IAM, secure authentication flows (AWS Cognito, FusionAuth, OAuth 2.0), and LLM security. Author of `llm-audit`, an open-source Semgrep rule pack for OWASP LLM Top 10 (npm). HackOps 2024 First Place winner. Bilingual EN/ES. Seeking AppSec, Product Security, or Cloud Security Engineer roles.

COMPETENCIES & SKILLS

Application Security: OWASP Top 10, OWASP LLM Top 10, Threat Modeling, SAST/DAST, Secure Code Review, Authentication & Authorization Design, security headers, Input Validation

Cloud Security: AWS IAM (least privilege), AWS Cognito, KMS, Secrets management, VPC isolation, S3 bucket policies, CloudFront, Lambda hardening

LLM & AI Security: Prompt injection testing, OWASP LLM Top 10 mapping, RAG architecture, vector databases, secure prompt design

Tools: Burp Suite, Wireshark, tcpdump, nfdump/nfpcapd, Metasploit, Semgrep, Hydra (lab contexts)

Languages & Frameworks: TypeScript, JavaScript, Python, Node.js, React, Next.js, Angular, Svelte, Express, Tailwind

Cloud & Data Platforms: AWS (Lambda, Amplify, Cognito, S3, CloudFront, IAM); Azure (Functions, Pipelines); GitHub Actions; MongoDB; Cosmos DB; Supabase (Postgres)

EDUCATION & CERTIFICATIONS

SANS Cyber Academy Scholarship **October 2025**
Security Essentials Certification (**GSEC**); Foundational Cybersecurity Technologies (**GFACT**)

In progress: GIAC GCIH; AWS AI Practitioner; PortSwigger Web Security Academy (**BSCP track**)

Cybersecurity Path – System Administration, Purdue University Northwest **March 2022 – May 2023**

Full Stack Developer, JRS Coding School **November 2019 – October 2020**

Bachelor of Science in Architectural Engineering, IE University **August 2006 – March 2012**

CYBER PROJECTS & ENGAGEMENTS

`llm-audit`

- Authored a Semgrep rule pack mapped to OWASP LLM Top 10 for TypeScript and JavaScript LLM applications.
- Ships as an npm CLI with a husky pre-commit hook and a GitHub Action workflow.
- Caught and fixed a real LLM02 (Insecure Output Handling) bug in my own portfolio's recruiter-fit endpoint in the same session.

LLM Red Team Home Lab

- Building reproducible prompt-injection attack chains against a deliberately vulnerable LLM application.
- Mapping write-ups to OWASP LLM01 through LLM10 with concrete payloads.

HackOps 2024 - First Place: HarthHaven (senior care discovery application)

- Team of four built a Svelte + Figma application helping family caregivers select appropriate senior communities.
- Contributed data set construction for the demo application.

AWS VPC Flow Log Analysis

- Triaged 173K flow records from 579 compressed log files using nfpicapd and nfdump.
- Identified 265MB of exfiltration over non-standard port 8889.
- Correlated attacker activity across a 6.5-hour window.

EXPERIENCE

Security Focused Software Engineer, g/d/n/a

March 2024 – Present

- Designed and implemented secure authentication and authorization flows using AWS Cognito, enforcing session management, input validation, and security headers across production applications.
- Architected least-privilege IAM policies across 15+ AWS resources (Lambda, S3, API Gateway, RDS), reducing blast radius in the event of credential compromise.
- Delivered React applications on AWS Lambda and Amplify with production-grade security controls (encrypted environment variables, IAM-scoped function roles, signed CloudFront distributions)
- Performed threat modeling and dependency review on hybrid AWS + MongoDB architectures, surfacing exposure paths before deployment.

Software Engineer, Querri

August 2023 – March 2024

- Designed and implemented FusionAuth-based authentication with secure session handling, role-based access controls, and audit logging for a Svelte-based product application.
- Hardened front-end and embedded code paths against common web vulnerabilities (XSS, CSRF, insecure direct object references) during feature development.

Software Engineer I - II, Interloop Technologies, Inc.

July 2021 – June 2023

- Led Angular, NestJS, and MongoDB projects with attention to authentication, authorization, and input validation in API design.
- Built and operated Azure Functions for client automation, integrating with downstream Azure services and CRM APIs.
- Mentored junior engineers through security-aware code reviews and pair programming.

Architectural Roles, Coastal Millwork and Supply

September 2015 – June 2021

- Business Developer, Project Engineer, Field PM; delivered commercial millwork projects including the Google Charleston Office. Transitioned into software engineering via JRS Coding School in 2019.